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| Atty. Dkt. No. | M# | Client Ref. |
| | 0284781 | 081289 |

**INFORMATION DISCLOSURE STATEMENT
BY APPLICANT**

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|---------------------------------|---------------------------|
| Applicant: Timothy A. Hovanec | |
| Appln. No.: 10/659,980 | |
| Filing Date: September 10, 2003 | |
| Examiner: SALMON | Group Art Unit: 1652-1634 |

Date: June 4, 2004 Page 1 of 1

U.S. PATENT DOCUMENTS

| Examiner's Initials* | Document Number | Date MM/YYYY | Name (Family Name of First Inventor) | Class | Sub Class | Filing Date (if appropriate) |
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| | AR | | | | | |
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FOREIGN PATENT DOCUMENTS

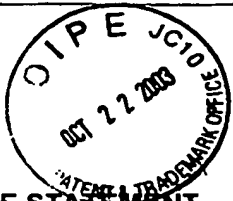
| | | Document Number | Date MM/YYYY | Country | Inventor Name | | Abstract | | Readily Available | |
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OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

| | | | | | |
|----------|----|--|--|--|--|
| KS. ↓ | TR | Aakra, Agot et al., "RFLP of rRNA genes and sequencing of the 16S-23S rDNA intergenic spacer region of ammonia-oxidizing bacteria: a phylogenetic approach," Intl. Journal of Systematic Bacteriology, 1999, pp. 123-130 | | | |
| | UR | Hovanec, Timothy et al., "Comparative Analysis of Nitrifying Bacteria Associate with Freshwater and Marine Aquaria," Applied and Environmental Microbiology, Aug. 1996, pp. 2888-2896 | | | |
| | VR | Burrell, Paul C. et al., "Aquatic Nitrate Oxidising Microorganisms," Canadian Intellectual Property Office, Nov. 20, 1998, pp. 1-76 | | | |
| | WR | | | | |
| | XR | | | | |
| | YR | | | | |

Examiner /Katherine Salmon/ Date Considered: 05/10/2006

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



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| Examiner: SALMON | Group Art Unit: 1634 |

Date: October 14, 2003 Page 1 of 1

U.S. PATENT DOCUMENTS

| Examiner's Initials* | Document Number | Date MM/YYYY | Name (Family Name of First Inventor) | Class | Sub Class | Filing Date (if appropriate) |
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OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

| | | | | | |
|----|-----|--|--|--|--|
| KS | WR | Tal, Yossi et al.; "Characterization of the Microbial Community and Nitrogen Transformation Processes Associated with Moving Bed Bioreactors in a Closed Recirculated Mariculture System; Elsevier Science B.V., Aquaculture, 2003, pp 187-202 | | | |
| | XR | | | | |
| | YR | | | | |
| | ZR | | | | |
| | AAR | | | | |
| | BBR | | | | |

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| Examiner: /Katherine Salmon/ | Date Considered: 05/10/2006 |
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| FORM PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION <i>(Use several sheets if necessary)</i> | | | | Docket Number (Optional) 81289-284781 | | Application No. Unassigned 101659980 | |
| | | | | Applicant HOVANEK | | | |
| | | | | Filing Date September 10, 2003 | | Group Art Unit Unassigned 1634 | |

| U.S. PATENT DOCUMENTS | | | | | | | |
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| EXAMINER INITIAL | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE | |
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| OTHER DOCUMENTS <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i> | |
|---|--|
| KS | TESKE et al.: "Evolutionary relationships among ammonia- and nitrite-oxidizing bacteria" DATABASE: EBI ACCESSION NO.: L35505 DATE OF AVAILABILITY: November 29, 1994 |
| ↓ | VAN DER MEER et al.: "Characterization of the bacterial composition of a nitrogen-removing biofilm from a trickling filter at Kollikon, Switzerland" DATABASE: EBI ACCESSION NO.: AJ224941 DATE OF AVAILABILITY: March 13, 1998 |
| ↓ | PURKHOLD et al.: "Comparative 16S rRNA and amoA sequence analysis: Implications for molecular diversity surveys" DATABASE: EBI ACCESSION NO.: AF272420 DATE OF AVAILABILITY: December 6, 2000 |
| ↓ | SUWA et al.: "Phylogenetic relationships of activated sludge isolates of ammonia oxidizers with different sensitivities to ammonium sulfate," J. GEN. APPL. MICROBIOL., vol. 43, pages 373-379 (1997) |
| ↓ | SUWA: "Nitrosomonas sp. JL21 gene for 16S rRNA, partial sequence" DATABASE: EBI ACCESSION NO.: AB000700 DATE OF AVAILABILITY: May 5, 1998 |
| ↓ | HEAD et al.: "The phylogeny of autotrophic ammonia-oxidizing bacteria as determined by analysis of 16S ribosomal RNA gene sequences," JOURNAL OF GENERAL MICROBIOLOGY, vol. 139, pages 1147-1153 (1993) |
| ↓ | STACKEBRANDT et al. (2001) Encyclopedia of Life Sciences, pages 1-7, Nature Publishing Group, New York, NY |
| EXAMINER | /Katherine Salmon/ DATE CONSIDERED 05/10/2006 |

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